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PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0851-0031

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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### Complete if Known

Application Number	10/535,508-Conf. #7230
Filing Date	December 16, 2005
First Named Inventor	Roberto Angelo Motterlini
Art Unit	1617
Examiner Name	Ali Soroush
Attorney Docket Number	H0817.70001US00

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	*	US-7,053,242	05-30-2006	Alberto et al.	
	*	US-7,011,854	03-14-2006	Haas et al.	
	*	US-6,673,908	01-06-2004	Stanton, Jr.	
	*	US-6,518,269	02-11-2003	Camden et al.	
	*	US-6,417,182	07-09-2002	Abrams et al.	
	*	US-6,350,752	02-26-2002	Glasky et al.	
	*	US-6,344,178	02-05-2002	Alberto et al.	
	*	US-6,338,963	01-15-2002	Glasky et al.	
	*	US-6,331,564	12-18-2001	Brugnara et al.	
	*	US-6,284,752	09-04-2001	Abrams et al.	
	*	US-6,251,927	06-26-2001	Lai et al.	
	*	US-6,242,432	06-05-2001	del Soldato	
	*	US-6,218,417	04-17-2001	Del Soldato	
	*	US-6,211,233	04-03-2001	Del Soldato	
	*	US-6,203,991	03-20-2001	Nabel et al.	
	*	US-6,177,471	01-23-2001	Menander et al.	
	*	US-6,066,333	05-23-2000	Willis et al.	
	*	US-6,060,467	05-09-2000	Buelow et al.	
	*	US-6,051,576	04-18-2000	Ashton et al.	

### FOREIGN PATENT DOCUMENTS

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		DE-4014762-A1	11-07-1991	Wenzel Martin Prof Dr		✓
		EP-0076493-A2	04-13-1983	Dragoco Gerberding Co. GmbH		✓
		FR-2816212-A1	05-10-2002	Air Liquide Sante Int		✓
		GB-0111872.8-A	07-03-1968	Northwick Park Institute for Medical Research		
		GB-0227135.1-A	04-13-1994	Northwick Park Institute for Medical Research		
		GB-0227138.5-A	04-13-1994	Northwick Park Institute for Medical Research		

Examiner Signature	/Ali Soroush/	Date Considered	03/12/2011
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	*	US-6,040,341	03-21-2000	Del Soldato et al.	
	*	US-6,027,936	02-22-2000	Glasky	
	*	US-6,025,394	02-15-2000	Menander et al.	
	*	US-5,891,689	04-06-1999	Takle et al.	
	*	US-5,888,982	03-30-1999	Perrella et al.	
	*	US-5,885,621	03-23-1999	Head et al.	
	*	US-5,861,426	01-19-1999	Del Soldato et al.	
	*	US-5,824,673	10-20-1998	Abrams et al.	
	*	US-5,811,463	09-22-1998	Legzdins et al.	
	*	US-5,801,184	09-01-1998	Glasky et al.	
	*	US-5,767,157	06-16-1998	Van Moerkerken	
	*	US-5,756,492	05-26-1998	Buelow et al.	
	*	US-5,700,947	12-23-1997	Soldato	
	*	US-5,670,664	09-23-1997	Kao et al.	
	*	US-5,664,563	09-09-1997	Schroeder et al.	
	*	US-5,659,027	08-19-1997	Spielvogel et al.	
	*	US-5,631,284	05-20-1997	Legzdins et al.	
	*	US-5,621,000	04-15-1997	Arena et al.	
	*	US-5,447,939	09-05-1995	Glasky et al.	

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		GB-2395431-A	05-26-2004	Northwick Park Institute for Medical Research		
		GB-2395432-A	05-26-2004	Northwick Park Institute for Medical Research		
		GB-1107510-A	03-27-1968	Merck & Co. Inc		
		HU-57595-A2	12-30-1991	Magdolna et al.		✓
		WO-85/04326-A1	10-10-1985	Biocompatibles Ltd		✓
		WO-92/03402-A1	03-05-1992	Firmenich SA		✓

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	*	US-5,350,767	09-27-1994	Hallberg et al.	
	*	US-5,312,816	05-17-1994	Spielvogel et al.	
	*	US-5,254,706	10-19-1993	Spielvogel et al.	
	*	US-5,102,670	04-07-1992	Abraham et al.	
	*	US-5,086,060	02-04-1992	Haley et al.	
	*	US-5,010,073	04-23-1991	Kappas et al.	
	*	US-4,938,949	07-03-1990	Borch et al.	
	*	US-4,910,211	03-20-1990	Imamura et al.	
	*	US-4,709,083	11-24-1987	Spielvogel	
	*	US-4,699,903	10-13-1987	Rideout et al.	
	*	US-4,668,670	05-26-1987	Rideout et al.	
	*	US-4,657,902	04-14-1987	Kappas et al.	
	*	US-4,649,151	03-10-1987	Dougherty et al.	
	*	US-4,613,621	09-23-1986	Hormann	
	*	US-4,322,411	03-30-1982	Vinegar et al.	
	*	US-4,312,989	01-26-1982	Spielvogel et al.	
	*	US-4,189,487	02-19-1980	Klosa	
	*	US-3,980,583	09-14-1976	Mitchell et al.	
	*	US-3,829,504	08-13-1974		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	76
		Country Code <sup>2</sup> -Number <sup>2</sup> -Kind Code <sup>2</sup> (if known)	MM-DD-YYYY			
		WO-92/04905-A1	04-02-1992	Abraham et al.		
		WO-95/009831	04-13-1995	Nicox S.A.		
		WO-95/35105-A1	12-28-1995	Lohmann Therapie Syst Lts et al.		√
		WO-96/003125	02-08-1996	NeoTherapeutics		
		WO-96/009038	03-28-1996	William Harvey Research Limited		
		WO-97/16405-A1	05-09-1997	Nicox S.A.		

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	*	US-3,812,166	05-21-1974	Wiechert	
	*	US-3,694,232	09-26-1972		
	*	US-3,278,570	10-11-1966	Wilkinson et al.	
	*	US-2,870,180	01-20-1959	Kozikowski et al.	
	*	US-2010-0105770	04-29-2010	Motterlini et al.	
	*	US-2008-0026984	01-31-2008	De Matos et al.	
	*	US-2007-0219120	09-20-2007	De Matos et al.	
	*	US-2007-0207993	09-06-2007	Haas et al.	
	*	US-2007-0207217	09-06-2007	Haas et al.	
	*	US-2006-0233890	10-19-2006	Haas et al.	
	*	US-2006-0148900	07-06-2006	Haas et al.	
	*	US-2005-0175555	08-11-2005	Stradi et al.	
	*	US-2005-0048133	03-03-2005	Pinsky et al.	
	*	US-2004-0258772	12-23-2004	Otterbein et al.	
	*	US-2004-0122091	06-24-2004	Dasseux et al.	
	*	US-2004-0228930	11-18-2004	Billiar et al.	
	*	US-2004-0214900	10-28-2004	Forbes et al.	
	*	US-2004-0143025	07-22-2004	Buelow et al.	
	*	US-2004-0131602	07-08-2004	Buelow et al.	

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		WO-97/36615-A1	10-09-1997	President and Fellows of Harvard College	
		WO-97/37644-A1	10-16-1997	The General Hospital Corp.	
		WO-98/38179-A1	09-03-1998	Glaxo Group Limited	
		WO-98/09618-A2	03-12-1998	Sangstat Medical Corporation	
		WO-99/67231-A1	12-29-1999	Nicox S.A.	
		WO-00/36113-A2	06-22-2000	Sangstat Medical Corporation	

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Substitute for form 1449/PTO  <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 10px 0;"><i>(Use as many sheets as necessary)</i></p>		<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/535,508-Conf. #7230</td> </tr> <tr> <td>Filing Date</td> <td>December 16, 2005</td> </tr> <tr> <td>First Named Inventor</td> <td>Roberto Angelo Motterlini</td> </tr> <tr> <td>Art Unit</td> <td>1617</td> </tr> <tr> <td>Examiner Name</td> <td>A. Soroush</td> </tr> <tr> <td>Attorney Docket Number</td> <td>H0817.70001US00</td> </tr> </table>		Application Number	10/535,508-Conf. #7230	Filing Date	December 16, 2005	First Named Inventor	Roberto Angelo Motterlini	Art Unit	1617	Examiner Name	A. Soroush	Attorney Docket Number	H0817.70001US00
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		[No Author Listed] "supramolecule" IUPAC compendium of chemical terminology. Retrieved from the internet at <a href="http://www.iupac.org/goldbook/SO6153.pdf">www.iupac.org/goldbook/SO6153.pdf</a> on May 8, 2006.	
		[No Author Listed] Biosis Chem Abstracts Database. Accession No. PREV200600414130. 2005. Otterbein et al., Cell Mol Biol (Noisy-le-grand). 2005 Oct 3;51(5):433-40. Abstract.	
		[No Author Listed] Chemical Abstracts. 2002;137:119662. (FR2816212)	
		[No Author Listed] Chemical Abstracts. 2004;140:40075. (WO2004/043341)	
		[No Author Listed] Chemical Abstracts. 2004;141:270758. (Ryter et al.)	
		[No Author Listed] Chemical Abstracts. 2004;142:211995. (Stein et al.)	
		ABEL et al., Anionic halogenopentacarbonyls of chromium, molybdenum, and tungsten. J Chem Soc. 1963;2068-70.	
		ABEL et al., Carbonyl halides of manganese and some related compounds. J Chem Soc. 1959;Part 2:1501-5.	
		ABEL et al., Reaction of molybdenum carbonyl with various halides: a potassium etherate salt. Chem Indust. 1960;442.	
		ABRAHAM et al., The biological significance and physiological role of heme oxygenase. Cell Physiol Biochem. 1996;6:129-68.	

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		ADKISON et al., Semicarbazone-based inhibitors of cathepsin K, are they prodrugs for aldehyde inhibitors? Bioorg Med Chem Lett. 2006 Feb 15;16(4):978-83. Epub 2005 Nov 15. Abstract only.	
		AKAMATSU et al., Heme oxygenase-1-derived carbon monoxide protects hearts from transplant associated ischemia reperfusion injury. FASEB J. 2004 Apr;18(6):771-2. Epub 2004 Feb 20.	
		ALBERTO et al., A novel organometallic aqua complex of technetium for the labeling of biomolecules: synthesis of [99mTc(OH <sub>2</sub> ) <sub>3</sub> (CO) <sub>3</sub> ]+ from [99mTcO <sub>4</sub> ]- in aqueous solution and its reaction with a bifunctional ligand. J Am Chem Soc. 1998;120:7987-8.	
		ALBERTO et al., Synthesis and properties of boranocarbonate: a convenient in situ CO source for the aqueous preparation of [(99m)Tc(OH(2)) <sub>3</sub> (CO) <sub>3</sub> ]+. J Am Chem Soc. 2001 Apr 4;123(13):3135-6.	
		ALESSIO et al., Carbonyl Derivatives of Chloride-Dimethyl Sulfoxide-Ruthenium(III) Complexes: Synthesis, Crystal Structure, and Reactivity of [(DMSO) <sub>2</sub> H][trans-RuCl <sub>4</sub> (DMSO-O)(CO)] and mer-cis-RuCl <sub>3</sub> (DMSO-O) <sub>2</sub> (CO). Inorg Chem. 1995;34(19):4716-21.	
		ALLANSON et al., Ultraviolet A (320-400 nm) modulation of ultraviolet B (290-320 nm)-induced immune suppression is mediated by carbon monoxide. J Invest Dermatol. 2005 Mar;124(3):644-50.	
		ALLARDYCE et al., Development of organometallic (organo-transition metal) pharmaceuticals. Appl Organomet Chem. 2005;19:1-10.	
		AMERSI et al., Ex vivo exposure to carbon monoxide prevents hepatic ischemia/reperfusion injury through p38 MAP kinase pathway. Hepatology. 2002 Apr;35(4):815-23.	
		ANDREADIS et al., Oxidative and nitrosative events in asthma. Free Radic Biol Med. 2003 Aug 1;35(3):213-25. Review. Abstract only.	
		ANGELICI et al., Carboxamido carbonyl complexes of manganese(II). Inorg Chim Acta. Mar 1968;2:3-7. Abstract only.	

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		ANGELICI, Preparation, characterization, and reactions of the di- Dihaloetetracarboxylmanganate(I) anions. Inorg Chem. Aug 1964;3(8):1099-1102.	
		AUJARD et al., Tridemethylisovelleral, a potent cytotoxic agent. Bioorg Med Chem. 2005 Nov 15;13(22):6145-50. Epub 2005 Aug 1. Abstract only.	
		BAGUL et al., Carbon monoxide protects against ischemia-reperfusion injury in an experimental model of controlled nonheartbeating donor kidney. Transplantation. 2008 Feb 27;85(4):576-81.	
		BANI-HANI et al., Modulation of thrombin-induced neuroinflammation in BV-2 microglia by carbon monoxide-releasing molecule 3. J Pharmacol Exp Ther. 2006 Sep;318(3):1315-22. Epub 2006 Jun 13.	
		BANNENBERG et al., Therapeutic applications of the gaseous mediators carbon monoxide and hydrogen sulfide. Expert Opin Ther Pat. 2009 May;19(5):663-82. Review.	
		BARKOUDAH et al., The permissive role of endothelial NO in CO-induced cerebrovascular dilation. Am J Physiol Heart Circ Physiol. 2004 Oct;287(4):H1459-65. Epub 2004 Jun 10.	
		BAUER et al., Evidence for a functional link between stress response and vascular control in hepatic portal circulation. Am J Physiol. 1996 Nov;271(5 Pt 1):G929-35.	
		BAUEROVA et al., Role of reactive oxygen and nitrogen species in etiopathogenesis of rheumatoid arthritis. Gen Physiol Biophys. 1999 Oct;18 Spec No:15-20. Review. Abstract only.	
		BEAL, Oxidatively modified proteins in aging and disease. Free Radic Biol Med. 2002 May 1;32(9):797-803. Review. Abstract only.	
		BEATY et al., An in vitro model for the in vivo mobilization of cadmium by chelating agents using 113Cd-NMR spectroscopy. Chem Res Toxicol. 1992;5:568-75. Abstract only.	

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			Filing Date	December 16, 2005	
			First Named Inventor	Roberto Angelo Motterlini	
			Art Unit	1617	
			Examiner Name	A. Soroush	
Sheet	13	of	34	Attorney Docket Number	H0817.70001US00

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		BECKER et al., NO-independent regulatory site of direct sGC stimulators like YC-1 and BAY 41-2272. BMC Pharmacol. 2001;1:13. Epub 2001 Dec 28.	
		BERMAN et al., Sensitization and catalysis of light-induced decarbonylation of aldehydes. J Am Chem Soc. 1963;85(24):4010-4013.	
		BEUTLER, The effect of carbon monoxide on red cell life span in sickle cell disease. Blood. 1975 Aug;46(2):253-9.	
		BOISSIERE et al., Exercise and vasorelaxing effects of CO-releasing molecules in hypertensive rats. Med Sci Sports Exerc. 2006 Apr;38(4):652-9.	
		BOTROS et al., Interaction between endogenously produced carbon monoxide and nitric oxide in regulation of renal afferent arterioles. Am J Physiol Heart Circ Physiol. 2006 Dec;291(6):H2772-8. Epub 2006 Jul 14.	
		BRASHEARS et al., Effect of meat packaging technologies on the safety and spoilage-indicating characteristics of ground beef - Phase 1: safety characteristics. 2006. National Cattlemen's Beef Association. 22 pages. Available at <a href="http://www.fda.gov/ohrms/dockets/dockets/05p0459/05p-0459-c000009-01-vol2.pdf">www.fda.gov/ohrms/dockets/dockets/05p0459/05p-0459-c000009-01-vol2.pdf</a>	
		BROOKS et al., The spoilage characteristics of ground beef packaged in high-oxygen and low-oxygen modified atmosphere packages. Proc. Reciprocal Meat Conference. University of Illinois at Urbana-Champaign. 2006:61-5.	
		BROUARD et al., Carbon monoxide generated by heme oxygenase 1 suppresses endothelial cell apoptosis. J Exp Med. 2000 Oct 2;192(7):1015-26.	
		BRÜNE et al., Inhibition of platelet aggregation by carbon monoxide is mediated by activation of guanylate cyclase. Mol Pharmacol. 1987 Oct;32(4):497-504.	
		BUNDGAARD et al., Pro-drugs as delivery systems. Pharm Int. 1981;2:136-40.	

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		BUNDGAARD et al., Pro-drugs as drug delivery systems XX. Oxazolidines as potential pro-drug types for $\beta$ -aminoalcohols, aldehydes or ketones. Intl J Pharm. Feb 1982;10(2):165-75. Abstract only.		
		BURGMAYER et al., Synthesis and structure of a 7-coordinate molybdenum carbonyl fluoride derivative - Et4n Mo(Co)2(S2cnet2)2f. Inorganic Chem. 1985;24:2224-30.		
		CAMPBELL et al., Molecular targets in immune-mediated diseases: the case of tumour necrosis factor and rheumatoid arthritis. Immunol Cell Biol. 2003 Oct;81(5):354-66.		
		CEPINSKAS et al., Carbon monoxide liberated from carbon monoxide-releasing molecule CORM-2 attenuates inflammation in the liver of septic mice. Am J Physiol Gastrointest Liver Physiol. Jan 2008; 294:G184 - G191.		
		CHAKRAVORTY et al., Inducible nitric oxide synthase and control of intracellular bacterial pathogens. Microbes Infect. 2003 Jun;5(7):621-7. Review. Abstract only.		
		CHATTERJEE, Water-soluble carbon monoxide-releasing molecules: helping to elucidate the vascular activity of the 'silent killer'. Br J Pharmacol. 2004 Jun;142(3):391-3. Epub 2004 May 17.		
		CHAUVEAU et al., Gene transfer of heme oxygenase-1 and carbon monoxide delivery inhibit chronic rejection. Am J Transplant. 2002 Aug;2(7):581-92.		
		CHLOPICKI et al., Carbon monoxide released by CORM-3 inhibits human platelets by a mechanism independent of soluble guanylate cyclase. Cardiovasc Res. 2006 Jul 15;71(2):393-401. Epub 2006 Mar 22.		
		CIHONSKI et al., Crown ethers in inorganic chemistry - preparation and characterization of group 6 pentacarbonyl hydroxides and fluorides. Inorganic Chem. 1975;14:1717-20.		
		CLARK et al., Cardioprotective actions by a water-soluble carbon monoxide-releasing molecule. Circ Res. 2003 Jul 25;93(2):e2-8. Epub 2003 Jul 3.		
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		CLARK et al., Heme oxygenase-1-derived bilirubin ameliorates posts ischemic myocardial dysfunction. Am J Physiol Heart Circ Physiol. 2000 Feb;278(2):H643-51.	
		CLARK et al., Measuring left ventricular function in the normal, infarcted and CORM-3-preconditioned mouse heart using complex admittance-derived pressure volume loops. J Pharmacol Methods. Mar-Apr 2009;59(2):94-9.	
		COCEANI et al., Carbon monoxide formation in the ductus arteriosus in the lamb: implications for the regulation of muscle tone. Br J Pharmacol. 1997 Feb;120(4):599-608.	
		COCEANI, Carbon monoxide in vasoregulation: the promise and the challenge. Circ Res. 2000 Jun 23;86(12):1184-6. Review.	
		COHEN et al., Dithiobenzoatotetracarboxylmanganese(I). Inorg Chem. 1964;3(11):1641-42.	
		CONANT et al., Trimethylacetaldehyde and dimethylethylacetaldehyde. J Am Chem Soc. 1929;51(4):1246-55.	
		COTTON et al., Dimethyl- and diethyldithiocarbamate complexes of some metal carbonyl compounds. Inorg Chem. 2 Jun 1964;3:1398-1402.	
		COTTON et al., X-ray molecular structures of Mn(CO)5(O2CCF3) and Mn(CO)3(C5H5N)2(O2CCF3). Inorg Chem. 1981;20(4):1287-91.	
		COVILLE et al., Steric measurement of substituted cyclopentadiene ligands and the synthesis and proton NMR spectral analysis of [(eta-5-C5H4R)Fe(CO)(L)] complexes with variable R. Organometallics. 1992;11(3):1082-90.	
		DE BACKER et al., Role of the soluble guanylyl cyclase alpha1/alpha2 subunits in the relaxant effect of CO and CORM-2 in murine gastric fundus. Naunyn Schmiedebergs Arch Pharmacol. 2008 Nov;378(5):493-502. Epub 2008 Jun 18.	

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		DE BACKER et al., Water-soluble CO-releasing molecules reduce the development of postoperative ileus via modulation of MAPK/HO-1 signalling and reduction of oxidative stress. Gut. 2009 Mar;58(3):347-56. Epub 2008 Nov 20.		
		DE FILIPPO et al., Inductive effect in dithiocarbamate decomposition mechanism. J Org Chem. 1973;38(3):560-3.		
		DESMARD et al., A carbon monoxide-releasing molecule (CORM-3) exerts bactericidal activity against Pseudomonas aeruginosa and improves survival in an animal model of bacteraemia. FASEB J. 2009 Apr;23(4):1023-31. Epub 2008 Dec 18.		
		DESMARD et al., Carbon monoxide reduces the expression and activity of matrix metalloproteinases 1 and 2 in alveolar epithelial cells. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):403-8.		
		DHARMARAJ et al., Ruthenium (II) complexes containing bidentate Schiff bases and their antifungal activity. Transition Metal Chemistry. 2001; 26(1-2): 105-109.		
		DI PASCOLI et al., Chronic CO levels have [corrected] a beneficial effect on vascular relaxation in diabetes. Biochem Biophys Res Commun. 2006 Feb 17;340(3):935-43. Epub 2005 Dec 27. Erratum in: Biochem Biophys Res Commun. 2006 Mar 14;342(3):1003.		
		DOUGLAS et al., Preparation of some group VI fluorometal carbonyl derivatives. J Organometal Chem. 1974;65:65-9.		
		DREW et al., Synthesis, spectral properties, and reactions of manganese and rhenium pentacarbonyl phosphine and phosphite cation derivatives and related complexes. Inorg. Chem. 1975;14(7):1579-84.		
		DROGE, Free radicals in the physiological control of cell function. Physiol Rev. 2002 Jan;82(1):47-95. Review.		
		DUCHENE et al., Cyclodextrins in targeting. Application to nanoparticles. Adv Drug Deliv Rev. 1999 Mar 1;36(1):29-40.		

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		DUCKERS et al., Heme oxygenase-1 protects against vascular constriction and proliferation. Nat Med. 2001 Jun;7(6):693-8.	
		EGLI et al., Organometallic 99mTc-aquaion labels peptide to an unprecedented high specific activity. J Nucl Med. 1999 Nov;40(11):1913-7.	
		EL-SAYED et al., Catalysis by crown ether complexes - part III effect of cation on the catalytic activity of crown ether - alkali metal halide complexes in the liquid phase oxidation of ethylbenzene. Egypt J Chem. 1979;22(1):23-8.	
		ELLIOTT et al., Nitric oxide: a regulator of mucosal defense and injury. J Gastroenterol. 1998 Dec;33(6):792-803. Review. Abstract only.	
		FAIRLAMB et al., $\eta^4$ -pyrone iron(0)carbonyl complexes as effective CO-releasing molecules (CO-RMs). Bioorg Med Chem Lett. 2006 Feb 15;16(4):995-8. Epub 2005 Nov 11.	
		FANG, Antimicrobial reactive oxygen and nitrogen species: concepts and controversies. Nat Rev Microbiol. 2004 Oct;2(10):820-32. Review. Abstract only.	
		FELDMANN et al., Anti-TNF alpha therapy of rheumatoid arthritis: what have we learned? Annu Rev Immunol. 2001;19:163-96. Review.	
		FERRÁNDIZ et al., Treatment with a CO-releasing molecule (CORM-3) reduces joint inflammation and erosion in murine collagen-induced arthritis. Ann Rheum Dis. 2008 Sep;67(9):1211-7. Epub 2007 Dec 6.	
		FISCHER et al., Methylpyridin-Chrom(O)-Tricarboxyl. Zeitschrift Fur Naturforschung Part-B: Chemie Biochemie Biophysik Biologie Und Verwandten Gebiete. 1959;14:736-7.	✓
		FISCHER et al., Über aromatenkomplexe von metallen. 37. zur aromatenkomplexbildung des pyridins mit chromhexacarbonyl. Chemische berichte-recueil. 1960;93:1156-61. English abstract provided.	✓
		FISCHER, Crystal structure of 1,4,7,10,13-pentaaxacyclopentadecane sodium bromide, C10H20BrNaO5. Zeitschrift fur kristallographie. 1996;2001:827-8.	✓

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		FIUMANNA et al., Carbon monoxide mediates vasodilator effects of glutamate in isolated pressurized cerebral arterioles of newborn pigs. Am J Physiol Heart Circ Physiol. 2003 Apr;284(4):H1073-9.	
		FORESTI et al., Reviewing the use of carbon monoxide-releasing molecules (CO-RMs) in biology: implications in endotoxin-mediated vascular dysfunction. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):409-23.	
		FORESTI et al., The heme oxygenase pathway and its interaction with nitric oxide in the control of cellular homeostasis. Free Radic Res. 1999 Dec;31(6):459-75. Review.	
		FORESTI et al., Vasoactive properties of CORM-3, a novel water-soluble carbon monoxide-releasing molecule. Br J Pharmacol. 2004 Jun;142(3):453-60. Epub 2004 May 17.	
		FRANGOGIANNIS et al., The inflammatory response in myocardial infarction. Cardiovasc Res. 2002 Jan;53(1):31-47. Review.	
		FRIEBE et al., Sensitizing soluble guanylyl cyclase to become a highly CO-sensitive enzyme. EMBO J. 1996 Dec 16;15(24):6863-8.	
		FRIEBE et al., YC-1 potentiates nitric oxide- and carbon monoxide-induced cyclic GMP effects in human platelets. Mol Pharmacol. 1998 Dec;54(6):962-7.	
		FUJITA et al., Paradoxical rescue from ischemic lung injury by inhaled carbon monoxide driven by derepression of fibrinolysis. Nat Med. 2001 May;7(5):598-604.	
		FUKUDA et al., Induction of heme oxygenase-1 (HO-1) after traumatic brain injury in the rat. Neurosci Lett. 1995 Oct 20;199(2):127-30.	
		GIBOREAU et al., Procedure for the preparation of pure dithiocarbamates. J Org Chem. 1994;59:1205-7.	

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		GREENER, Now you're signaling, with gas: gasotransmitters open a window on biology and drug development. <i>The Scientist</i> . 2004;18(17):20.	
		GUO et al., Administration of a CO-releasing molecule at the time of reperfusion reduces infarct size in vivo. <i>Am J Physiol Heart Circ Physiol</i> . 2004 May;286(5):H1649-53. Epub 2004 Jan 2.	
		GÜNTHER et al., Carbon monoxide protects pancreatic beta-cells from apoptosis and improves islet function/survival after transplantation. <i>Diabetes</i> . 2002 Apr;51(4):994-9. MEDLINE Abstract.	
		HAAG et al., Polymer therapeutics: concepts and applications. <i>Angew Chem Int Ed Engl</i> . 2006 Feb 13;45(8):1198-215. Review. Abstract only.	
		HADDLETON et al., [N-Alkyl-(2-pyridyl)methanimine]copper(I) complexes: characterisation and application as catalysts for atom-transfer polymerisation. 7 Dec 1998;1998(11):1799-1806. Abstract only.	
		HADDLETON et al., Atom transfer polymerization of methyl methacrylate mediated by alkylpyridylmethanimine type ligands, copper(I) bromide, and alkyl halides in hydrocarbon solution. <i>Macromolecules</i> . 1999;32(7):2110-19. Abstract only.	
		HADJIGOGOS, The role of free radicals in the pathogenesis of rheumatoid arthritis. <i>Panminerva Med</i> . 2003 Mar;45(1):7-13. Review. Abstract only.	
		HALL et al., DNA interaction with metal complexes and salts of substituted boranes and hydroborates in murine and human tumor cell lines. <i>Anticancer Drugs</i> . 1991 Aug;2(4):389-99.	
		HALL et al., The anti-inflammatory activity of boron derivatives in rodents. <i>Met Based Drugs</i> . 1995;2(1):1-12.	
		HALL et al., The anti-inflammatory activity of metal complexes and salts of amine carboxyboranes. <i>Appl Organomet Chem</i> . 1994;8:473-80.	

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		HANCOCK et al., Antibody-induced transplant arteriosclerosis is prevented by graft expression of anti-oxidant and anti-apoptotic genes. <i>Nat Med</i> . 1998 Dec;4(12):1392-6.		
		HENRICKS et al., Reactive oxygen species as mediators in asthma. <i>Pulm Pharmacol Ther</i> . 2001;14(6):409-20. Review. Abstract only.		
		HIEBER et al., Derivate des Mangancarbonyls mit schwefelorganischen Liganden. <i>Chemische Berichte</i> . 1966;99(7):2312-21.	✓	
		HITCHON et al., Oxidation in rheumatoid arthritis. <i>Arthritis Res Ther</i> . 2004;6(6):265-78. Epub 2004 Oct 13. Review.		
		HOGG, Free radicals in disease. <i>Semin Reprod Endocrinol</i> . 1998;16(4):241-8. Review. Abstract only.		
		HOSGOOD et al., Application of nitric oxide and carbon monoxide in a model of renal preservation. <i>Br J Surg</i> . 2008 Aug;95(8):1060-7.		
		IGNATEV et al., Reactivity of perfluoroalkyl halides towards nucleophiles. <i>Russ J Electrochem</i> . 1995;31(12):1235-9. Translated from <i>Elektrokhimiya</i> . 1995;31(12):1337-42.		
		IOGANSON et al., Metal carbonyl complexes with ligands of biological origin. <i>Russ Chem Rev</i> . 1985;54(3):277-92.		
		JANDER et al., Neutralisationsanaloge reaktionen in essigsaureanhydrid. <i>Zeitschrift fur anorganische chemie</i> . 1948;255:238-52. English abstract provided.	✓	
		JELLUM et al., Quantitative determination of biologically important thiols and disulfides by gas-liquid chromatography. <i>Analyst Biochem</i> . 1969;31:339-47. Abstract only.		

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			Art Unit	1617	
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			Attorney Docket Number	H0817.70001US00	
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		JOHANSEN et al., Spectrophotometric determination of the rates of hydrolysis of aldehyde-releasing pro-drugs in aqueous solution and plasma. Intl J Pharma. 1982 Dec;13(1):89-98. Abstract only.	
		JOHNSON et al., Metal carbonyls as pharmaceuticals? [Ru(CO)3Cl(glycinate)], a CO-releasing molecule with an extensive aqueous solution chemistry. Dalton Trans. 2007 Apr 21;(15):1500-8. Epub 2007 Mar 8.	
		JOHNSON et al., Metal carbonyls: a new class of pharmaceuticals? Angew Chem Int Ed Engl. 2003 Aug 18;42(32):3722-9.	
		JOHNSON et al., Role of endogenous carbon monoxide in central regulation of arterial pressure. Hypertension. 1997 Oct;30(4):962-7.	
		JÖZKOWICZ et al., Heme oxygenase and angiogenic activity of endothelial cells: stimulation by carbon monoxide and inhibition by tin protoporphyrin-IX. Antioxid Redox Signal. 2003 Apr;5(2):155-62.	
		KAMIMURA et al., The protective effect of carbon monoxide on the ischemia-induced cell death. The J Biochem. Aug 2002;74(8):926. Japanese abstract. English translation provided.	
		KHARITONOV et al., Basis of guanylate cyclase activation by carbon monoxide. Proc Natl Acad Sci U S A. 1995 Mar 28;92(7):2568-71.	
		KHARITONOV et al., Kinetics and equilibria of soluble guanylate cyclase ligation by CO: effect of YC-1. Biochemistry. 1999 Aug 17;38(33):10699-706.	
		KRUEGER et al., Potential of tumor necrosis factor inhibitors in psoriasis and psoriatic arthritis. Arch Dermatol. 2004 Feb;140(2):218-25. Review.	
		KUBIC et al., Metabolism of dihalomethanes to carbon monoxide. I. In vivo studies. Drug Metab Dispos. 1974 Jan-Feb;2(1):53-7. Abstract only.	
		KUIATE et al., Composition of the essential oil from leaves and flowers of Dichrocephala integrifolia (L.) O. Kuntze Chev. From Cameroon. Flavour and Fragrance J. 1999 Nov/Dec;14(6):419-20. Abstract only.	

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		LAMBERT et al., O,O'-Diphenyldithiophosphatetetracarbonylmanganese(I) and related compounds. Inorg Chem. 1966;5(7):1287-9.		
		LEDGER, Carbon monoxide-releasing metal carbonyls: a new class of pharmaceuticals? Drug Disc Today. 2003;8:1096.		
		LEE et al., Heme oxygenase-1 mediates the anti-inflammatory effect of interleukin-10 in mice. Nat Med. 2002 Mar;8(3):240-6.		
		LEVRAND et al., Controlled release of volatile aldehydes and ketones by reversible hydrazone formation - classical profragrances are getting dynamic. Chem. Commun. 2006;28:2965-7.		
		LI et al., Carbon monoxide protects PC12 cells from peroxynitrite-induced apoptotic death by preventing the depolarization of mitochondrial transmembrane potential. Biochem Biophys Res Commun. 2006 Apr 14;342(3):984-90.		
		LIPMANN et al., Organometallic Lewis Acids. LI. Reactivity of organometallic Lewis Acids (OC)4Re(Oe2)FBF3 and (OC)2(PPh3)2Ru(FBF3)2. Journal of Organometallic Chemistry. 1994;466(1-2):167-174. English abstract provided.		√
		LOFTSSON et al., Cyclodextrins in topical drug formulations: theory and practice. Int J Pharm. 2001 Aug 28;225(1-2):15-30. Review.		
		LOVELL et al., Biologic agents for the treatment of juvenile rheumatoid arthritis: current status. Paediatr Drugs. 2004;6(3):137-46.		
		MAHMOUD et al., Potential anticancer agents. XVI. Isolation of bicyclofarnesane sesquiterpenoids from Capsicodendron dinisii. J Nat Prod. 1980 May-Jun;43(3):365-71. Abstract only.		
		MARKS et al., Does carbon monoxide have a physiological function? Trends Pharmacol Sci. 1991 May;12(5):185-8. Review.		

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		MARTINS et al., Induction of carbon monoxide in the donor reduces graft immunogenicity and chronic graft deterioration. <i>Transplant Proc.</i> 2005 Jan-Feb;37(1):379-81.		
		MATSUDA et al., Mediators of non-adrenergic non-cholinergic inhibitory neurotransmission in porcine jejunum. <i>Neurogastroenterol Motil.</i> 2004 Oct;16(5):605-12.		
		MATTES et al., Triply bridged thiobenzoato carbonyl manganates(II) and rhenates(II). The crystal and molecular structure of caesium tris(μ-thiobenzoato(S))bis(tricarbonyl rhenate). <i>J Organometall Chem.</i> 1979 Sept. 25, 178(1):191-6.		
		MCCLAUGHLIN et al., Potentiation of carbon monoxide-induced relaxation of rat aorta by YC-1 [3-(5'-hydroxymethyl-2'-furyl)-1-benzylindazole]. <i>Can J Physiol Pharmacol.</i> 2000 Apr;78(4):343-9.		
		MCMILLEN et al., Hydrocarbon bond dissociation energies. <i>Ann Rev Phys Chem.</i> 1982 Oct;33:493-532.		
		MEDER et al., Metallkomplexe mit biologisch wichtigen liganden, XLII [1] carbonylmatalkomplexe mit anionen von mehrfunktionellen alpha-aminosaeuren [Metal complexes with biologically important ligands], XLII [1] carbonyl metal complexes with anions of polyfunctional alpha-amino acids]. <i>Zeitschrift für Naturforschung</i> ;1986;1247-54. German language reference. English abstract provided.		✓
		MEGIAS et al., The carbon monoxide-releasing molecule tricarboxydiclororuthenium(II) immer protects human osteoarthritic chondrocytes and cartilage from the catabolic actions of interleukin-1beta. <i>J Pharmacol Exp Ther.</i> 2008 Apr;325(1):56-61. Epub 2008 Jan 14.		
		MIGUEL et al., Manganese(II) complexes with (tricyclohexylphosphonio)dithiocarboxylate as chelate and unidentate ligand. X-Ray crystal structure of fac-[Mn(CO)3(S2CP(C6H11)3)2(CIO4)H2O]. <i>J Chem Soc, Dalton Trans.</i> 1987;12:2875-80.		
		MIKULS et al., Benefit-risk assessment of infliximab in the treatment of rheumatoid arthritis. <i>Drug Saf.</i> 2003;26(1):23-32. Review. Abstract only.		
		MILLER et al., The pharmacological activities of the metabolites of N-((trimethylamineboronyl)-carbonyl)-L-phenylalanine methyl ester. <i>Met Based Drugs.</i> 1996;3(5):219-26.		

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		MONCADA et al., Nitric oxide: physiology, pathophysiology, and pharmacology. Pharmacol Rev. 1991 Jun;43(2):109-42.	
		MONCADA et al., The discovery of nitric oxide and its role in vascular biology. Br J Pharmacol. 2006 Jan;147 Suppl 1:S193-201.	
		MOORE et al., Brief inhalation of low-dose carbon monoxide protects rodents and swine from postoperative ileus. Crit Care Med. 2005 Jun;33(6):1317-26.	
		MORITA et al., Carbon monoxide controls the proliferation of hypoxic vascular smooth muscle cells. J Biol Chem. 1997 Dec 26;272(52):32804-9.	
		MORITA et al., Endothelial cell expression of vasoconstrictors and growth factors is regulated by smooth muscle cell-derived carbon monoxide. J Clin Invest. 1995 Dec;96(6):2676-82.	
		MORSE et al., Suppression of inflammatory cytokine production by carbon monoxide involves the JNK pathway and AP-1. J Biol Chem. 2003 Sep 26;278(39):36993-8. Epub 2003 Jul 11.	
		MOTTERLINI et al., Bioactivity and pharmacological actions of carbon monoxide-releasing molecules. Curr Pharm Des. 2003;9(30):2525-39.	
		MOTTERLINI et al., Chapter 16: Studies on the development of carbon-monoxide -releasing molecules: potential applications for the treatment of cardiovascular dysfunction. Ed., Rui Wang. CRC Press, New York. 2002:249-72.	
		MOTTERLINI et al., CORM-A1: a new pharmacologically active carbon monoxide-releasing molecule. FASEB J. 2005 Feb;19(2):284-6. Epub 2004 Nov 19.	
		MOTTERLINI et al., Therapeutic applications of carbon monoxide-releasing molecules. Expert Opin Investig Drugs. 2005 Nov;14(11):1305-18. Review.	
		MOTTERLINI, Vasoactive properties of carbon monoxide-releasing molecules. Biomed Pharmacother. 2002;56(7):349-50.	

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		MOYA et al., Metal carbonyl complexes containing heterocyclic nitrogen ligands: Part IX, MnBr(CO) <sub>3</sub> (3,3'-R-2,2'-biquinoline) compounds. Polyhedron. 1 Mar 2002; 21(4):439-44. Abstract only.	
		MUNGRUE et al., From molecules to mammals: what's NOS got to do with it? Acta Physiol Scand. 2003 Oct;179(2):123-35. Review. Abstract only.	
		MUSAMEH et al., Improved myocardial function after cold storage with preservation solution supplemented with a carbon monoxide-releasing molecule (CORM-3). J Heart Lung Transplant. 2007 Nov;26(11):1192-8.	
		MUSAMEH et al., Positive inotropic effects of carbon monoxide-releasing molecules (CORMs) in the isolated perfused rat heart. Br J Pharmacol. 2006 Dec;149(8):1104-12. Epub 2006 Oct 23.	
		NAKAO et al., Carbon monoxide inhalation protects rat intestinal grafts from ischemia/reperfusion injury. Am J Pathol. 2003 Oct;163(4):1587-98.	
		NAKAO et al., Protective effect of carbon monoxide in transplantation. J Cell Mol Med. 2006 Jul-Sep;10(3):650-71. Review.	
		NATHAN, Points of control in inflammation. Nature. 2002 Dec 19-26;420(6917):846-52. Review.	
		NDISANG et al., Modulation of the immunological response of guinea pig mast cells by carbon monoxide. Immunopharmacology. 1999 Jun;43(1):65-73.	
		NETO et al., Protection of transplant-induced renal ischemia-reperfusion injury with carbon monoxide. Am J Physiol Renal Physiol. 2004 Nov;287(5):F979-89. Epub 2004 Aug 3.	
		NITSCHKE et al., Properties of (Trifluoromethanesulfonato)pentacarbonylmanganese(I) and -rhenium(I). Reactions in superacid solvents. Inorg Chem. 1985;24(13):1972-8.	

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		NOBRE et al., Antimicrobial action of carbon monoxide-releasing compounds. <i>Antimicrob Agents Chemother.</i> 2007 Dec;51(12):4303-7. Epub 2007 Oct 8.	
		NUDELMAN et al., Prodrugs of butyric acid. Novel derivatives possessing increased aqueous solubility and potential for treating cancer and blood diseases. <i>Eur J Med Chem.</i> Jan 2001;36(1):63-74. Abstract only.	
		NUDELMAN et al., The role of intracellularly released formaldehyde and butyric acid in the anticancer activity of acyloxyalkyl esters. <i>J. Med. Chem.</i> 22 Jan 2005;48(4):1042-54. Abstract only.	
		O'BRIEN et al., Aldehyde sources, metabolism, molecular toxicity mechanisms, and possible effects on human health. <i>Crit Rev Toxicol.</i> 2005 Aug;35(7):609-62. Review.	
		OTTERBEIN et al., Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway. <i>Nat Med.</i> 2000 Apr;6(4):422-8.	
		OTTERBEIN et al., Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury. <i>Nat Med.</i> 2003 Feb;9(2):183-90. Epub 2003 Jan 21.	
		OTTERBEIN et al., Heme oxygenase-1: unleashing the protective properties of heme. <i>Trends Immunol.</i> 2003 Aug;24(8):449-55. Review.	
		OTTERBEIN, Carbon monoxide: innovative anti-inflammatory properties of an age-old gas molecule. <i>Antioxid Redox Signal.</i> 2002 Apr;4(2):309-19. Review.	
		OZAWA et al., Leydig cell-derived heme oxygenase-1 regulates apoptosis of premeiotic germ cells in response to stress. <i>J Clin Invest.</i> 2002 Feb;109(4):457-67.	
		PAE et al., Carbon monoxide produced by heme oxygenase-1 suppresses T cell proliferation via inhibition of IL-2 production. <i>J Immunol.</i> 2004 Apr 15;172(8):4744-51.	

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		PAINTNER et al., Synthesis and antimicrobial activity of tetracycline partial structures. <i>Bioorg Med Chem.</i> 2003 Jul 3;11(13):2823-33. Abstract only.	
		PANKEY et al., Clinical relevance of bacteriostatic versus bactericidal mechanisms of action in the treatment of Gram-positive bacterial infections. <i>Clin Infect Dis.</i> 2004 Mar 15;38(6):864-70. Epub 2004 Mar 1. Review.	
		PATEL et al., Preparation of (η <sup>5</sup> -cyclopentadienyl) and (η <sup>5</sup> -Methylcyclopentadienyl)Fe(CO) <sub>2</sub> Me cyclodextrin inclusion compounds and their subsequent ligand substitution reactions. Attempts at cyclodextrin mediated enantioselective ligand substitution. <i>J Organometal Chem.</i> 1997;547:103-112.	
		PELOSO et al., Expanding the armamentarium for the spondyloarthropathies. <i>Arthritis Res Ther.</i> 2004;6 Suppl 2:S36-43. Epub 2004 Jun 21.	
		PIANTADOSI, Biological chemistry of carbon monoxide. <i>Antioxid Redox Signal.</i> 2002 Apr;4(2):259-70. Review.	
		QUICK et al., Pentacarbonylmanganese halides. In <i>Inorganic Syntheses</i> , Vol. 19. Duward F. Shriver, Ed. Inorganic Syntheses, Inc. 1979:158-63.	
		RATTAN et al., Mechanism of internal anal sphincter relaxation by CORM-1, authentic CO, and NANC nerve stimulation. <i>Am J Physiol Gastrointest Liver Physiol.</i> 2004 Sep;287(3):G605-11.	
		REHDER et al., 55Mn NMR characteristics of carbonylmanganese complexes with hetero-substituted dithioformate-, thioformamido- and thioformamide ligands [1]. <i>Inorg Chim Acta.</i> 1983;73:243-7. Abstract only.	
		REIMANN et al., Reactions of metal carbonyls. Part III. Steric and stereochemical limitations of higher substitution of manganese carbonyl bromide. <i>J Chem Soc Dalton Trans.</i> 1973;841-6. Abstract only.	
		RODELLA et al., Carbon monoxide and biliverdin prevent endothelial cell sloughing in rats with type I diabetes. <i>Free Radic Biol Med.</i> 2006 Jun 15;40(12):2198-205. Epub 2006 Mar 20.	

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		RUTKOWSKA-ZBIK et al., Theoretical density functional theory studies on interactions of small biologically active molecules with isolated heme group. J Comput Chem. 2007 Mar;28(4):825-31.	
		RYAN et al., Renal vascular responses to CORM-A1 in the mouse. Pharmacol Res. 2006 Jul;54(1):24-9. Epub 2006 Mar 9.	
		RYTER et al., Carbon monoxide in biology and medicine. Bioessays. 2004 Mar;26(3):270-80.	
		RYTER et al., Carbon monoxide: to boldly go where NO has gone before. Sci STKE. 2004 Apr 20;2004(230):RE6. Review.	
		RYTER et al., Heme oxygenase-1/carbon monoxide: from basic science to therapeutic applications. Physiol Rev. 2006 Apr;86(2):583-650. Review.	
		RYTER et al., Heme oxygenase/carbon monoxide signaling pathways: regulation and functional significance. Mol Cell Biochem. 2002 May-Jun;234-235(1-2):249-63. Review.	
		SACERDOTI et al., Treatment with tin prevents the development of hypertension in spontaneously hypertensive rats. Science. 1989 Jan 20;243(4889):388-90.	
		SALAZAR-SALINAS et al., Molecular biosensor based on a coordinated iron complex. J Chem Phys. 2009 Mar 14;130(10):105101.	
		SANDBORN, Strategies for targeting tumour necrosis factor in IBD. Best Pract Res Clin Gastroenterol. 2003 Feb;17(1):105-17. Review.	
		SANDOUKA et al., Carbon monoxide-releasing molecules (CO-RMs) modulate respiration in isolated mitochondria. Cell Mol Biol (Noisy-le-grand). 2005 Sep 30;51(4):425-32.	

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		Examiner Name	A. Soroush
		Attorney Docket Number	H0817.70001US00
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		SANDOUKA et al., Treatment with CO-RMs during cold storage improves renal function at reperfusion. Kidney Int. 2006 Jan 69(2):239-47.	
		SARADY et al., Carbon monoxide protection against endotoxic shock involves reciprocal effects on iNOS in the lung and liver. FASEB J. 2004 May;18(7):854-6. Epub 2004 Mar 4.	
		SAWLE et al., Carbon monoxide-releasing molecules (CO-RMs) attenuate the inflammatory response elicited by lipopolysaccharide in RAW264.7 murine macrophages. Br J Pharmacol. 2005 Jul;145(6):800-10.	
		SAWLE et al., Homocysteine attenuates endothelial haem oxygenase-1 induction by nitric oxide (NO) and hypoxia. FEBS Lett. 2001 Nov 23;508(3):403-6.	
		SCHMIDT et al., Manganese(I) and rhenium(I) pentacarbonyl(Trifluoromethanesulfonato) complexes. In Inorganic Syntheses, Ed. Herbert D. Kesz. Inorganic Syntheses, Inc. 1989:113-7.	
		SEVERIN et al., Metal complexes of biologically important ligands. LXX. Synthesis, stereochemistry and reactions of ruthenium (II) and osmium (II) complexes with .alpha.-amino carboxylates. 1994; 127(4): 615-620.	✓
		SHAPIRO, Carbonyl-trapping therapeutic strategies. Am J Ther. 1998 Sep;5(5):323-53. Review.	
		SHIOHIRA et al., Protective effect of carbon monoxide donor compounds in endotoxin-induced acute renal failure. Am J Nephrol. 2007;27(5):441-6. Epub 2007 Jul 12.	
		SIOW et al., Heme oxygenase-carbon monoxide signalling pathway in atherosclerosis: anti-atherogenic actions of bilirubin and carbon monoxide? Cardiovasc Res. 1999 Feb;41(2):385-94.	
		SKATTEBØL et al., Synthesis of (±)-Lineatin, an aggregation pheromone component of Trypodendron lineatum. Acta Chem Scand B. 1985;39:291-304.	
		SONG et al., Carbon monoxide inhibits human airway smooth muscle cell proliferation via mitogen-activated protein kinase pathway. Am J Respir Cell Mol Biol. 2002 Nov;27(5):603-10.	

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		SONG et al., Carbon monoxide inhibits T lymphocyte proliferation via caspase-dependent pathway. J Immunol. 2004 Jan 15;172(2):1220-6.	
		SPECTOR, Review: Oxidative stress and disease. J Ocul Pharmacol Ther. 2000 Apr;16(2):193-201. Review. Abstract only.	
		SRISOOK et al., CO from enhanced HO activity or from CORM-2 inhibits both O2- and NO production and downregulates HO-1 expression in LPS-stimulated macrophages. Biochem Pharmacol. 2006 Jan 12;71(3):307-18. Epub 2005 Dec 2.	
		SRISOOK et al., Role of NO in enhancing the expression of HO-1 in LPS-stimulated macrophages. Methods Enzymol. 2005;396:368-77.	
		STAAL et al., The syntheses and coordination properties of M(CO)3X(DAB) (M = Mn, Re; X = Cl, Br, I; DAB = 1,4-diazabutadiene). J Organometal Chem. 1 May 1979;170( 2):235-45. Abstract only.	
		STAGNI et al., A water-soluble carbon monoxide-releasing molecule (CORM-3) lowers intracocular pressure in rabbits. Br J Ophthalmol. 2009 Feb;93(2):254-7. Epub 2008 Oct 31.	
		STANFORD et al., Carbon monoxide inhibits endothelin-1 release by human pulmonary artery smooth muscle cells. Eur J Pharmacol. 2004 Feb 23;486(3):349-52.	
		STANFORD et al., Heme oxygenase is expressed in human pulmonary artery smooth muscle where carbon monoxide has an anti-proliferative role. Eur J Pharmacol. 2003 Jul 25;473(2-3):135-41.	
		STEC et al., Heme oxygenase-1 induction does not improve vascular relaxation in angiotensin II hypertensive mice. Am J Hypertens. 2008 Feb;21(2):189-93. Epub 2008 Jan 3.	
		STEIN et al., Administration of a CO-releasing molecule induces late preconditioning against myocardial infarction. J Mol Cell Cardiol. 2005 Jan;38(1):127-34. Epub 2004 Dec 8.	

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		STONE et al., Soluble guanylate cyclase from bovine lung: activation with nitric oxide and carbon monoxide and spectral characterization of the ferrous and ferric states. <i>Biochemistry</i> . 1994 May 10;33(18):5636-40.	
		STONE et al., Synergistic activation of soluble guanylate cyclase by YC-1 and carbon monoxide: implications for the role of cleavage of the iron-histidine bond during activation by nitric oxide. <i>Chem Biol</i> . 1998 May;5(5):255-61.	
		SUEMATSU et al., Carbon monoxide: an endogenous modulator of sinusoidal tone in the perfused rat liver. <i>J Clin Invest</i> . 1995 Nov;96(5):2431-7.	
		SUN et al., Attenuation of leukocytes sequestration by carbon monoxide-releasing molecules: liberated carbon monoxide in the liver of thermally injured mice. <i>J Burn Care Res</i> . 2007 Jan-Feb;28(1):173-81.	
		SUN et al., CO-releasing molecules (CORM-2)-liberated CO attenuates leukocytes infiltration in the renal tissue of thermally injured mice. <i>Int J Biol Sci</i> . 2008 Jun 16;4(3):176-83.	
		SUN et al., Preconditioning of carbon monoxide releasing molecule-derived CO attenuates LPS-induced activation of HUVEC. <i>Int J Biol Sci</i> . 2008 Aug 22;4(5):270-8.	
		SUN et al., Role of CO-releasing molecules liberated CO in attenuating leukocytes sequestration and inflammatory responses in the lung of thermally injured mice. <i>J Surg Res</i> . 2007 May 1;139(1):128-35. Epub 2007 Feb 9.	
		SUZUKI et al., Activated platelets in ulcerative colitis enhance the production of reactive oxygen species by polymorphonuclear leukocytes. <i>Scand J Gastroenterol</i> . 2001 Dec;36(12):1301-6. Abstract only.	
		SZALLASI et al., Dialdehyde sesquiterpenes and other terpenoids as vanilloids. <i>Eur J Pharmacol</i> . 1998 Aug 28;356(1):81-9. Abstract only.	
		TAILLE et al., Mitochondrial respiratory chain and NAD(P)H oxidase are targets for the antiproliferative effect of carbon monoxide in human airway smooth muscle. <i>J Biol Chem</i> . 2005 Jul 8;280(27):25350-60. Epub 2005 Apr 29.	

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		TAYEM et al., Protection against cisplatin-induced nephrotoxicity by a carbon monoxide-releasing molecule. Am J Physiol Renal Physiol. 2006 Apr;290(4):F789-94. Epub 2005 Nov 15.	✓
		TILG et al., Antitumor necrosis factor therapy in Crohn's disease. Expert Opin Biol Ther. 2002 Oct;2(7):715-21. Review. Abstract only.	
		TOGANE et al., Protective roles of endogenous carbon monoxide in neointimal development elicited by arterial injury. Am J Physiol Heart Circ Physiol. 2000 Feb;278(2):H623-32.	
		TREICHEL et al., Synthesis and reactivity of bridging thiolato-manganese carbonyl complexes, Et4N[Mn2(μ-SR)3(CO)6]. J Organometall Chem. 1985 Sept 10;292(3):385-93.	
		URWYLER et al., Positive allosteric modulation of native and recombinant gamma-aminobutyric acid(B) receptors by 2,6-Di-tert-butyl-4-(3-hydroxy-2,2-dimethyl-propyl)-phenol (CGP7930) and its aldehyde analog CGP13501. Mol Pharmacol. 2001 Nov;80(5):963-71.	
		VAN STAVEREN et al., Spectroscopic Properties, Electrochemistry, and Reactivity of MoO, Mol, and Moll Complexes with the [Mo(bpa)(CO)3] Unit [bpa = bis(2-picoly)amine] and Their Application for the Labelling of Peptides. Eur J Inorg Chem. 2002;6:1518-29.	
		VANNACCI et al., Evaluation of the effects of a novel carbon monoxide releasing molecule (CORM-3) in an in vitro model of cardiovascular inflammation. 1. Histamine in allergy, inflammation, tissue growth and repair. Inflamm Res. 2005 Apr;55 Suppl 1:S05-6.	
		VANNACCI et al., The effect of a carbon monoxide-releasing molecule on the immunological activation of guinea-pig mast cells and human basophils. Inflamm Res. 2004;53 Suppl 53:S09-10.	
		VARADI et al., Beneficial effects of carbon monoxide-releasing molecules on post-ischemic myocardial recovery. Life Sci. 2007 Apr 3;80(17):1619-26. Epub 2007 Feb 2.	
		VERA et al., Protective effect of carbon monoxide-releasing compounds in ischemia-induced acute renal failure. J Am Soc Nephrol. 2005 Apr;16(4):950-8. Epub 2005 Feb 23.	
		VERMA et al., Carbon monoxide: a putative neural messenger. Science. 1993 Jan 15;259(5093):381-4.	

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		VERONA et al., Regioselectivity in the nucleophilic functionalization of xanthene complexes of Mn(CO) <sub>3</sub> . J Organomet Chem. 1 Nov 1996;524(1-2):71-80.	
		VISWANATHAMURTHI et al., Synthesis, characterization and biocidal studies of ruthenium (II) carbonyl complexes containing tetradentate Schiff bases. Transition Metal Chemistry. 1999; 24(5):638-641.	
		VOLTI et al., Carbon monoxide signaling in promoting angiogenesis in human microvessel endothelial cells. Antiox Redox Signal. May 2005;7(5-6):704-10.	
		VREMAN et al., Determination of carbon monoxide (CO) in rodent tissue: effect of heme administration and environmental CO exposure. Anal Biochem. 2005 Jun 15;341(2):280-9. Abstract only.	
		WAIBEL et al., Stable one-step technetium-99m labeling of His-tagged recombinant proteins with a novel Tc(I)-carbonyl complex. Nat Biotechnol. 1999 Sep;17(9):897-901.	
		WANG et al., Carbon monoxide-induced vasorelaxation and the underlying mechanisms. Br J Pharmacol. 1997 Jul;121(5):927-34.	
		WEIGEL et al., Inhibition of DNA replication in Escherichia coli by cyanide and carbon monoxide. J Biol Chem. 1975 Nov 10;250(21):8536-42.	
		WU et al., Carbon monoxide: endogenous production, physiological functions, and pharmacological applications. Pharmacol Rev. 2005 Dec;57(4):585-630. Review.	
		XI et al., Carbon monoxide activates KCa channels in newborn arteriole smooth muscle cells by increasing apparent Ca <sup>2+</sup> sensitivity of alpha-subunits. Am J Physiol Heart Circ Physiol 2004 Feb;286(2):H610-8. Epub 2003 Oct 16.	
		XU et al., A facile method for synthesis of (R)-(-)- and (S)-(+)-homocitric acid lactones and related alpha-hydroxy dicarboxylic acids from D- or L-malic acid. Tetrahedron Lett. 30 May 2005;46(22):3815-18. Abstract only.	

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		YET et al., Induction of heme oxygenase-1 expression in vascular smooth muscle cells. A link to endotoxic shock. J Biol Chem. 1997 Feb 14;272(7):4295-301.	
		ZHANG et al., Carbon monoxide inhibition of apoptosis during ischemia-reperfusion lung injury is dependent on the p38 mitogen-activated protein kinase pathway and involves caspase 3. J Biol Chem. 2003 Jan 10;278(2):1248-58. Epub 2002 Oct 23.	
		ZIMMERMAN et al., Cerebroprotective effects of the CO-releasing molecule CORM-A1 against seizure-induced neonatal vascular injury. Am J Physiol Heart Circ Physiol. Oct 2007;293:H2501-H2507.	
		ZUCKERBRAUN et al., Carbon monoxide protects against the development of experimental necrotizing enterocolitis. Am J Physiol Gastrointest Liver Physiol. 2005 Sep;289(3):G607-13. Epub 2005 May 12.	
		ZUCKERBRAUN et al., Carbon monoxide reverses established pulmonary hypertension. J Exp Med. 2006 Sep 4;203(9):2109-19. Epub 2006 Aug 14.	

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